







Zervas School Site Plan – A better way forwards Presented by: NHNAC Zervas Working Group

November 12, 2014

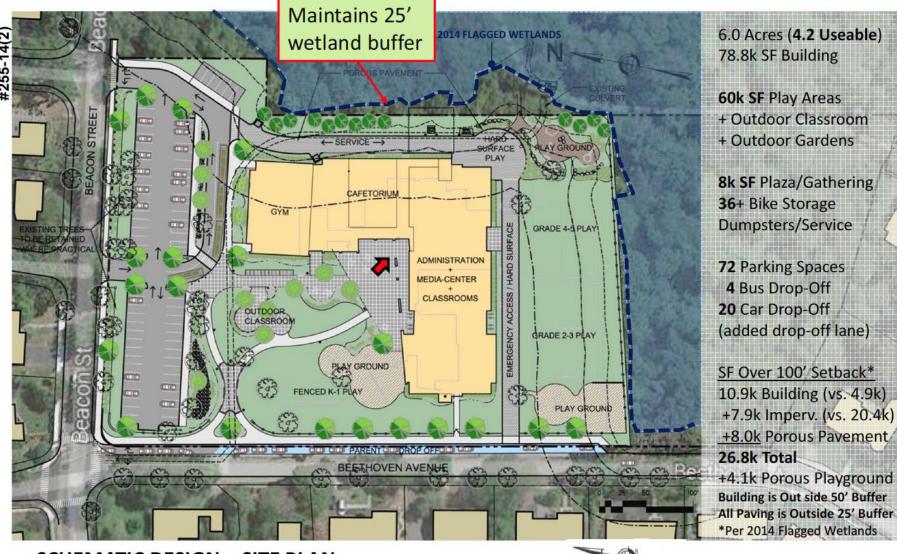


SCHEMATIC DESIGN PROGRESS – SITE PLAN

Zervas Elementary School – Newton, MA September 5, 2014







SCHEMATIC DESIGN – SITE PLAN

Zervas Elementary School – Newton, MA 5-58 Site Plan Approval Hearing – November 12, 2014



Designpartnership

*Per 2014 Flagged Wetlands



78.8k SF Building

60k SF Play Areas

36+ Bike Storage

4 Bus Drop-Off

(added drop-off lane)

+7.9k Imperv. (vs. 20.4k) +8.0k Porous Pavement

+4.1k Porous Playground Building is Out side 50' Buffer

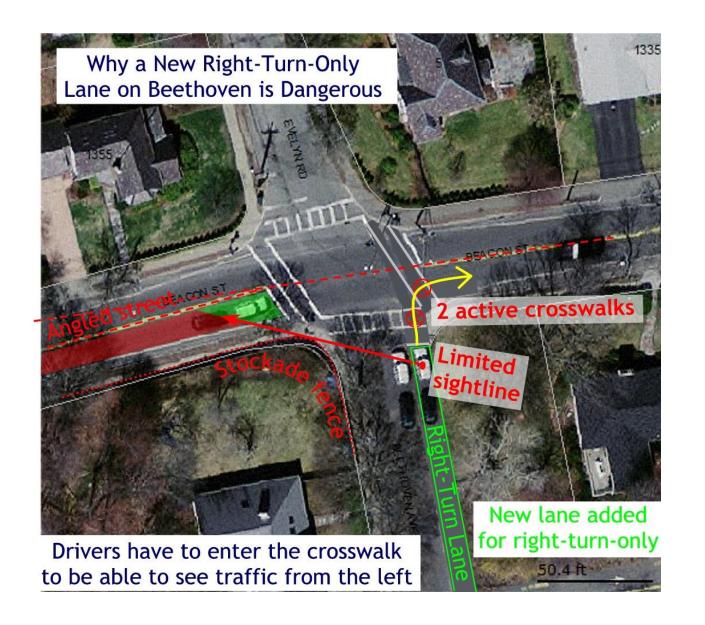
Dumpsters/Service

Traffic Safety

- Creates bottleneck on Beacon Street
- Multiple ingress/egress into parking lot
- Conflicts between cars and buses
- Vehicular entry and exit too close to Beethoven and to each other
- Conflicts with pedestrians

Traffic Safety

- Widening of Beethoven Avenue facilitates fast driving and reduces safety of children
- Widening does not accommodate the majority of cars that will use the site, cars will be "double parked"
- Turning lane next to crosswalk allows cars to move faster, creating pedestrian conflicts



Open Space/Playfields

- Inadequate play space that is fractured between fields
- Play space reduced by expanded drop off lane on Beethoven and circuitous parking lot with multiple driveways
- Useful "green space" reduced by berms and thin strips of grass
- Gymnasium faces parking lot

Wetlands problems

- Significant amount of building mass within 100 ft wetlands buffer with impervious surfaces
- Significant amount of roadways and parking within 100 ft and 50 ft buffer with impervious surface
- Unclear demarcation between wetlands and property lines

Integration into residential neighborhood

- Demolition of homes changes residential streetscape
- Replacement of green space with asphalt parking lot in front setback of building
- Removal of multiple trees, clear cutting

Orientation of building

- Building fractures play space between younger and older children (? Safety issue)
- Building turns its back on the children and those who walk and bike from the majority of the district (80%)
- North side entry will be in almost perpetual shade during the winter months with ice and snow

Lack of windows ("fenestrations")

- Significant increase in proportion of brick, concrete and other non-window façade
- Library with little day-lighting, even though it is on the north side
- Gymnasium and façade that faces public streets with little window space





SCHEMATIC DESIGN – VIEW FROM BEACON EXIT (EAST)

Zervas Elementary School – Newton, MA 5-58 Site Plan Approval Hearing – November 12, 2014





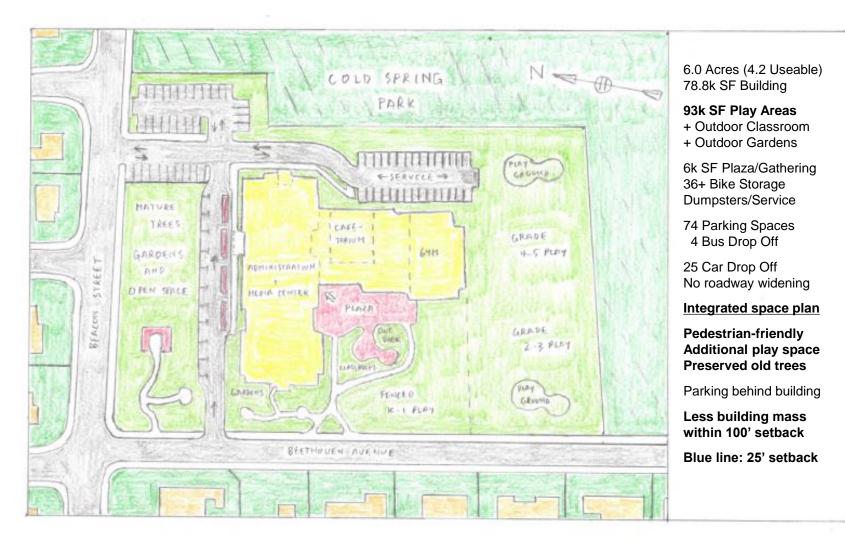


SCHEMATIC DESIGN - END ELEVATION STUDY

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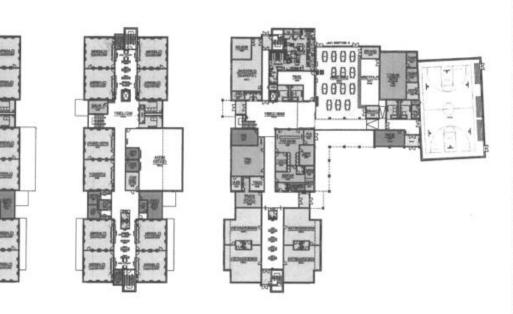




Schematic Design Progress - Site Plan "C"

Zervas Elementary School – Newton, MA November 12, 2014 Newton Highlands Neighborhood Area Council Zervas Working Group

Zervas – NHNAC Working Group Adopts <u>exact</u> specifications of building design



Wing with cafeteria and gymnasium is shifted 16 ft forward

School opens to playing fields and not to teacher parking lot

School entry/exit points - secure and safe

Plan C

Meets all educational and programatic goals

Building size is the same as with the Project Team's plan

This is a school with 24 classrooms, modern gymnasium and cafeteria

All special education, media and conference rooms are included

Includes welcoming entry and plaza

Traffic Safety

- Preserves traffic flow on Beacon Street, a major arterial in Newton with 10K vehicles per day
- Creates simple ingress/egress into parking area
- No conflicts between cars and buses entering site
- Vehicular entry and exit adequate distance from Beethoven and to each other
- Reduces conflict with pedestrians

Traffic Safety

- Save and slow Beethoven Avenue increaes safety of children
- Blue lane drop-off zone adequate and allow for drop offs on a slower and safer street
- Pedestrian crosswalk at Beacon-Evelyn maintains better safety without turning lane
- Consistent with sound traffic engineering and planning

Open Space/Playfields

- Creates increased play space that is contiguous between fields
- Play space increased by removing drop off lane on Beethoven and circuitous parking lot with multiple driveways
- Useful "green space" is increased to 93K SF
- Gymnasium faces playing fields

Orientation of building

- Play space between younger and older children is better integrated
- Building is oriented to those who walk and bike from the majority of the district (80%)
- South side entry will be on the sunny side of the building, which is favorable during the winter months when there is ice and snow

Wetlands proximity is respected

- Reduces amount of building mass within 100 ft wetlands buffer to negligible amount
- There is no parking within the 25 ft wetlands buffer
- Amount of building footprint within 100 ft wetlands setback is reduced by about 80%

Integration into residential neighborhood

- Residential streetscape on Beacon Street remains unchanged
- Green space in front setback of building, just like in current residential setting
- Preservation of multiple trees
- Façade with multiple windows respects historical appearance of school

Integration into residential neighborhood

- Other Newton school buildings have integrated well within their adjacent residential setting
- Some people will prefer to live nearby to the school and others won't
- No reason to believe that proximity of buildings will greatly affect property values
- Open parking lots with constant night lighting may decrease nearby real estate desirability

Provide more windows

- Current Zervas school has an almost continuous wall of glass windows on many of its facades
- Classrooms should have more of their exterior walls as windows
- Important for media center to have more windows so that students do not feel enclosed
- Parts of building oriented to public way should have more windows, including gymnasium



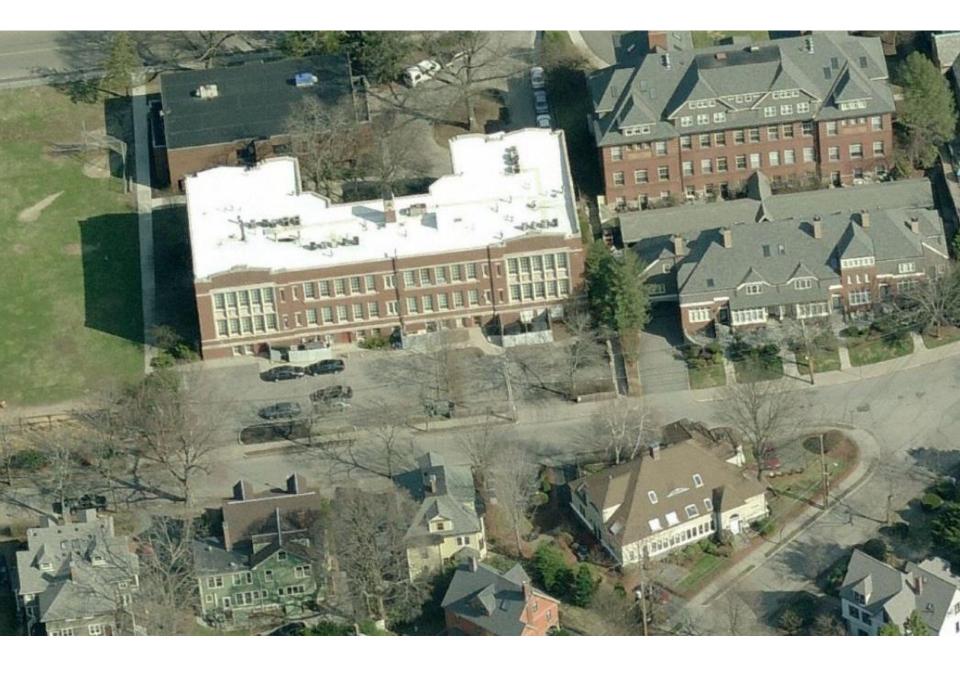
Current Zervas School:

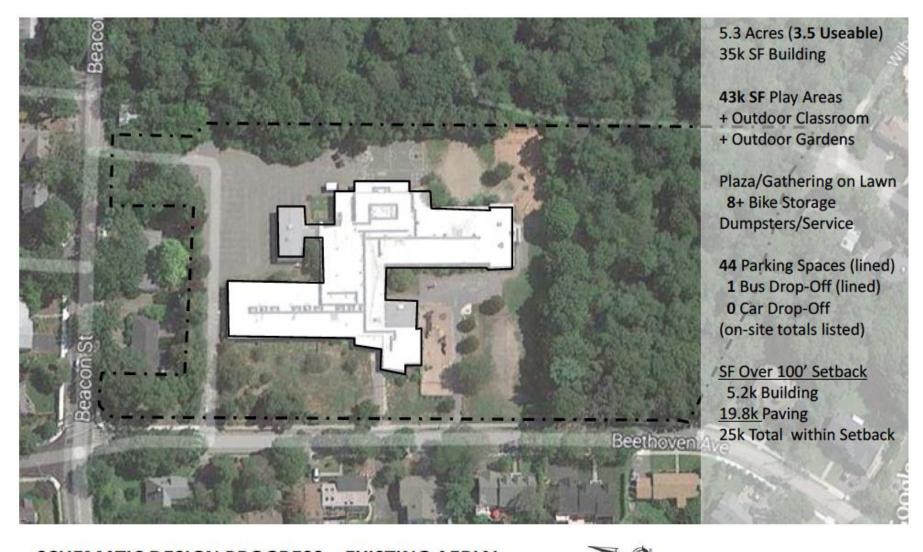
Exterior walls have 70% windows

Provides for natural light and enhances learning environment







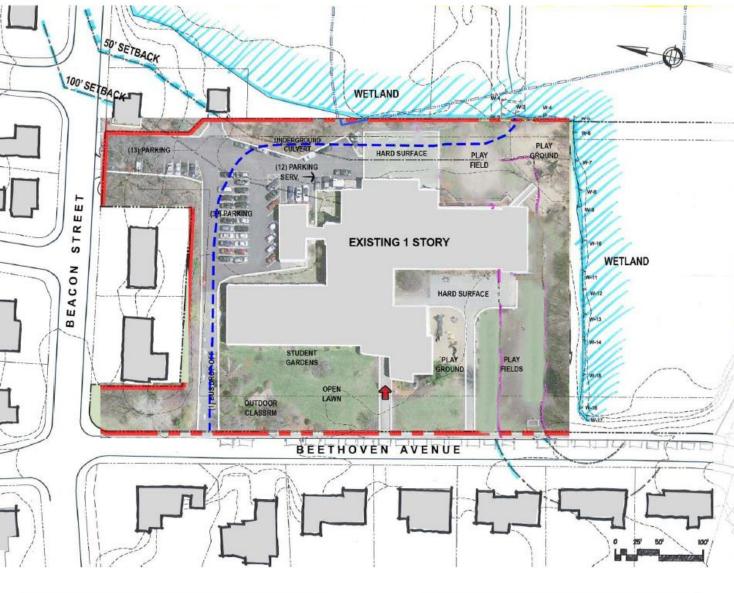


SCHEMATIC DESIGN PROGRESS – EXISTING AERIAL

Zervas Elementary School – Newton, MA September 5, 2014







Existing Zervas ES

A1.0

1 Story Pinwheel Plan with Parking Behind

Total Site = 5.3 acres*
Usable = 3.5 acres**
Parking = 57 spaces
Drop-Off = 1 bus/0 car
(+ Beethoven Ave)

Play Areas = 43k SF

*acreage obtained from the City Tax Assessor's web-site

**includes usable areas within wetland buffers. The amount of paving allowed within the buffers is at the discretion of the Conservation Commission

Design partnership



Zervas Elementary School – Newton, MA

FEBRUARY 27, 2014